

ORDER FOR SUPPLIES OR SERVICES						PAGE OF PAGES		
						1	15	
<b>IMPORTANT:</b> Mark all packages and papers with contract and/or order numbers.								
1. DATE OF ORDER 03/10/2020		2. CONTRACT NO. (If any) 68HERC19D0011		6. SHIP TO:				
3. ORDER NO. 68HERC20F0171		4. REQUISITION/REFERENCE NO. PR-ORD-20-00359		a. NAME OF CONSIGNEE  Office of Research and Development				
5. ISSUING OFFICE (Address correspondence to) CAD  US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				b. STREET ADDRESS US Environmental Protection Agency 26 West Martin Luther King Drive				
				c. CITY Cincinnati		d. STATE OH	e. ZIP CODE 45268	
7. TO: JAMES BURKE				f. SHIP VIA				
a. NAME OF CONTRACTOR National Academy of Sciences				8. TYPE OF ORDER  <input type="checkbox"/> a. PURCHASE REFERENCE YOUR:  Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.				
b. COMPANY NAME								
c. STREET ADDRESS 500 FIFTH STREET NW				<input checked="" type="checkbox"/> b. DELIVERY  Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.				
d. CITY WASHINGTON		e. STATE DC	f. ZIP CODE 200012736					
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE Office of Research and Development				
11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB						12. F.O.B. POINT		
13. PLACE OF		14. GOVERNMENT B/L NO.		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 03/09/2022		16. DISCOUNT TERMS		
a. INSPECTION Destination		b. ACCEPTANCE Destination						
17. SCHEDULE (See reverse for Rejections)								
ITEM NO. (a)	SUPPLIES OR SERVICES (b)			QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 041964057 TOCOR: GLENNIS RESLOCK Max Expire Date: 03/09/2022  Continued ...							
SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		\$300,000.00	17(h) TOTAL (Cont. pages) ▲
	21. MAIL INVOICE TO:							
	a. NAME		RTP Finance Center					
	b. STREET ADDRESS (or P.O. Box)		US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts				\$300,000.00	17(i) GRAND TOTAL ▲
	c. CITY		d. STATE	e. ZIP CODE				
Durham		NC	27711					
22. UNITED STATES OF AMERICA BY (Signature)				03/10/2020		23. NAME (Typed) William M. Yates TITLE: CONTRACTING/ORDERING OFFICER		

**ORDER FOR SUPPLIES OR SERVICES**  
**SCHEDULE - CONTINUATION**

PAGE NO  
2

**IMPORTANT:** Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 03/10/2020	CONTRACT NO. 68HERC19D0011	ORDER NO. 68HERC20F0171
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ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	Admin Office: CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001 Period of Performance: 03/10/2020 to 03/09/2022  2026RRC023: New Task Order Request (ORD/IO) under the NAS Contract #68HERC19D0011 titled "Provision of Scientific and Technical Expertise for Environmental Public Health Issue Workshops/Business Meetings  TOCOR: Robin Clarke ALTOCOR: Tia Groves Acquisition Division: CAD CS: William Yates CO: Mark Cranley CL COR: Glennis Reslock AltCOR: Jorge Rangel Exemption Code ME262600 (NAS exempt from EPA 5170 Conference Policy) NO IT Codes or FITARA Required  Accounting Info: 20-21-C-26RR000-000FK6XR1-2532-26A5C-2 026RRC023-001 BFY: 20 EFY: 21 Fund: C Budget Org: 26RR000 Program (PRC): 000FK6XR1 Budget (BOC): 2532 Job #: ME262600 Cost: 26A5C DCN - Line ID: 2026RRC023-001 Funding Flag: Complete Funded: \$64,000.00				64,000.00	
0002	2026RRC023: New Task Order Request (ORD/IO) under the NAS Contract #68HERC19D0011 titled "Provision of Scientific and Technical Expertise for Environmental Public Health Issue Workshops/Business Meetings  TOCOR: Robin Clarke ALTOCOR: Tia Groves Continued ...				236,000.00	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$300,000.00



ORDER FOR SUPPLIES OR SERVICES  
SCHEDULE - CONTINUATION

PAGE NO  
3

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER	CONTRACT NO.	ORDER NO.
03/10/2020	68HERC19D0011	68HERC20F0171

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	Acquisition Division: CAD CS: William Yates CO: Mark Cranley CL COR: Glennis Reslock AltCOR: Jorge Rangel Exemption Code ME262600 (NAS exempt from EPA 5170 Conference Policy) NO IT Codes or FITARA Required  Accounting Info: 20-21-C-26RR000-000FK6XR2-2532-26A5C-2 026RRC023-002 BFY: 20 EFY: 21 Fund: C Budget Org: 26RR000 Program (PRC): 000FK6XR2 Budget (BOC): 2532 Job #: ME262600 Cost: 26A5C DCN - Line ID: 2026RRC023-002 Funding Flag: Complete Funded: \$236,000.00					

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$0.00

## PERFORMANCE WORK STATEMENT

National Academy of Sciences (NAS)

Contract #68HERC19D0011

PR-ORD-20-00359

Task Order 68HERC20F0171

**I. TITLE:** Provision of Scientific and Technical Expertise for Environmental Public Health Issue Workshops/Business Meetings

### II. Task Order Contracting Officer Representative(s):

<b>Task Order Contracting Officer Representative (TOCOR)</b> <b>Name:</b> Robin R. Clarke <b>Office:</b> ORD/OSA/IO William Jefferson Clinton Building 1200 Pennsylvania Avenue, NW; Mail Code: 8150R, Rm No. 41231 Washington, DC 20460 <b>Phone:</b> 202-564-6493 <b>FAX:</b> 202-564-2070 <b>Email:</b> clarke.robin@epa.gov	<b>Alternate Task Order Contracting Officer Representative (Alt. TOCOR)</b> <b>Name:</b> Tia Groves <b>Office:</b> ORD/IO William Jefferson Clinton Building 1200 Pennsylvania Avenue, NW; Mail Code: 8101R, Room 41218 Washington, DC 20460 <b>Phone:</b> 202-564-5709 <b>FAX:</b> 202-565-2494 <b>Email:</b> groves.Tia@epa.gov
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**III. PERIOD OF PERFORMANCE:** Date of Task Order award through 24 Months following award.

### IV. PURPOSE OF TASK ORDER

EPA's Office of Research and Development is requesting that two(2) environmental issue-specific workshops be convened annually and one Environmental Health Matters Initiative (EHMI) business meeting be convened every other year to discuss the complexity of making decisions on matters involving the impact of the environment on human health. This activity will provide the EPA with independent scientific and technical input from recognized experts on how to advance human health and the impact of the environmental health field. The activity will also provide EPA with a comprehensive shared perspective on opportunities to address the impact of environmental stressors on human health.

### V. BACKGROUND

The complexity of making decisions on matters involving the impact of the environment on human health is becoming increasingly apparent—from transportation planning to environmental remediation to use of chemicals. At the same time, EPA's scientific ability to address such complex issues is improving. But taking advantage of the scientific advances will

require bringing together both multiple disciplines (to further the science) and multiple sectors (to bring knowledge to action) to work across traditional boundaries. The National Academy of Science (NAS) is in a unique position to address these issues through the Environmental Health Matters Initiative (EHMI). EHMI was established to catalyze such work and to provide leadership on the big challenges in environmental health. The EHMI will transform how the nation comprehends the complex interplay of environmental factors affecting human health and mobilizes cross-sector and trans-disciplinary strategies to reduce the burden of disease and disability due to environmental factors and promote human health.

## **VI. SCOPE OF WORK**

It is expected that the EHMI shall provide a new venue in which the environmental health community can interact with relevant sectors and disciplines to examine available information and develop innovative solutions to the nation's most significant environmental health challenges. With the goal of reducing the burden of disease and disability due to environmental factors that impact human health, EHMI shall work to: (1) explore the complexity of the challenges, (2) identify opportunities where progress can be made, (3) catalyze the development of holistic and sustainable opportunities, and (4) provide rapid expert input when crises demand.

The EHMI shall contribute to EPA's mission to advance human health and the impact of the environmental health field by convening experts, decision-makers, and stakeholders to collectively identify environmental public health fields of concern (during a EHMI business meeting) and develop and disseminate a comprehensive shared perspective on opportunities to address the impact of environmental stressors on human health in selected areas (during issue-specific workshops).

## **VII. DESCRIPTION OF TASKS**

An EHMI business meeting shall be convened every other year to identify areas of cross-cutting environmental public health issues. Based on the environmental public health issues identified at the EHMI business meeting(s), issue-specific workshops (no more than three (3) per year) shall be convened to strategize and collaborate on how to address the issue. A milestone timeline for all of the EHMI meeting(s) and workshops shall be provided to the TOCOR or other relevant EPA staff designated by the TOCOR within 30 days of task initiation (See Task 1 Deliverables).

If needed, NAS shall also convene an ad hoc, environmental crisis issue meeting (no more than one per year). If held, this meeting will replace an issue specific workshop.

NAS shall also identify subject matter expertise and provide logistical support for business meeting, issue-specific workshop, and ad hoc environmental crisis meeting participants.

Task 1 shall be conducted once at the initiation of the task order. Task 2 shall be conducted at the initiation of the task order and updated on an as needed basis throughout the 24-month performance period. Task 3 shall be conducted once. Tasks 4 and 6 shall be conducted annually during the 24-month performance period. Task 5 shall be conducted on an as need basis, with no more than once occurrence per year.

### **Task 1: (Kick-off Teleconference)**

Convene a kick-off teleconference between EPA and NAS with the Task Order Contracting Officer Representative (TOCOR), and relevant Office of Research and Development/Immediate Office of the Assistant Administrator (ORD/IOAA) management and technical staff, to review the scope of work. This kick-off teleconference shall occur within seven (7) days of acceptance of this task order.

**Subtask 1.1 Milestone Timeline:** NAS shall prepare a milestone timeline with details of the timing for the EHMI business meetings and issue-specific workshops within 30 days of task initiation. Updates to the milestone timeline shall be provided quarterly to the TOCOR, Contract Level Contracting Representative, Contracting Officer, or other relevant EPA staff designated by the TOCOR.

### **Task 1. Deliverables**

Task	SubTask	Deliverable	Schedule
1	N/A	Kick-off Teleconference	Seven (7) days from TO acceptance
1	1.1	Milestone timeline within 30 days of task initiation. The milestone timeline should detail the timing for EHMI issue-specific workshops and business meetings, milestones and deliverables.	Thirty (30) days from task initiation, with quarterly updates thereafter.

### **Task 2: (Subject Matter Experts)**

This task provides EHMI with scientific and technical input at business meetings and issue-specific workshops by experts identified by NAS.

**Subtask 2.1 Post Recruitment Meeting:** NAS shall seek input from the scientific community, the public, and a broad range of relevant stakeholders as part of its process for identifying potential experts. NAS shall provide the TOCOR a proposed list of subject-matter-experts (SMEs) including a biographical sketch, proposed area of expertise for each SME, and if there are any issues regarding potential conflict of interest (COI) or impartiality. NAS shall determine who will participate in each meeting or workshop, based on the expertise of the SMEs. NAS shall then deliver a final list of participants for each meeting to the TOCOR.

**Subtask 2.2 Recruit Experts:** Identify a panel (10-15) of SMEs who (a) are recognized experts in the field(s) relevant to the request, (b) represent a range of broadly recognized views on the

issues identified by EPA, (c) are available to present and discuss their individual views at future EHMI business meeting(s) and environmental public health issue workshops and (d) have been evaluated for conflicts of interest and the appearance of a loss of impartiality.

### **Task 2. Deliverables**

Task	SubTask	Deliverable	Schedule
2	2.1	NAS proposed list of subject-matter-experts (SMEs) including a biographical sketch, proposed area of expertise for each SME, and if there are any issues regarding potential conflict of interest (COI) or impartiality.	Ten (10) Days from conclusion of TO Kick-off Meeting
2	2.2	NAS to Recruit (10-15) Experts	Ten (10) Days from identifying SMEs under Task 2.1

### **Task 3: (EHMI Business Meeting)**

NAS to convene and facilitate an EHMI business meeting, with the SMEs specified in Task 2, every other year. SMEs at this business meeting shall identify high-level environmental, public health issues that are cross-cutting and have impact across federal and state agencies and in the public and private sectors. Strategies and goals for addressing these cross-cutting issues should also be discussed, including the planning for issue-specific workshops. The SMEs shall prioritize the identified environmental public health issues, based on level of importance to public health and need for resolution. The identified environmental public health issues would become the basis for each of the issue-specific workshops, scheduled based on the issue's priority.

### **Task 3. Deliverables**

Task	SubTask	Deliverable	Schedule
3		Provide written comments of the business meeting(s), including the list of identified cross-cutting environmental public health issues and issue-specific workshop milestone timelines.	Fifteen (15) days after conclusion of the meeting(s).

### **Task 4: (Issue-Specific Workshops)**

NAS shall convene and facilitate two (2) issue-specific workshops per year that each focus on one of the identified environmental public health issues, as specified in Task 3. These issue-specific workshops should include the SMEs specified in Task 2, as well as other, invited, topic-specific experts (identified by the SMEs) from across the federal, state, private and public

sectors. These workshops shall be solutions-driven, where activities, strategies, and potential collaborations to address the environmental public health topic to be identified.

#### **Task 4. Deliverables**

<b>Task</b>	<b>SubTask</b>	<b>Deliverable</b>	<b>Schedule</b>
4		Provide the agenda and list of attendees for each issue-specific workshop.	Seven (7) days before the workshop(s).
4	4.1	Provide written comments for each issue-specific workshop, including action items or next steps.	Fifteen (15) days after conclusion of the workshop(s).

#### **Task 5: (Issue-Specific Meeting in Event of National Environmental Crisis)**

In the event of a national environmental crisis, NAS may convene and facilitate an ad hoc, environmental crisis issue meeting (no more than one per year). If held, it will replace an issue-specific workshop. SMEs, identified in Task 2, should meet to discuss the issue, identify resources or strategies to provide a quick response to the environmental crisis, and discuss, subject to time and applicability, strategies to prevent the environmental crisis from occurring again.

##### **Subtask 5.1 Issue-Specific Meeting Written Comments**

Upon conclusion of each ad hoc, environmental crisis issue meeting NAS shall provide written comments of the meeting, including action items or next steps to the TOCOR or other relevant EPA staff designated by the TOCOR within 15 days.

### **Task 5. Deliverables**

<b>Task</b>	<b>SubTask</b>	<b>Deliverable</b>	<b>Schedule</b>
5		Provide the agenda and list of attendees for the ad hoc, environmental crisis issue meeting.	Two (2) days before the meeting.
5	5.1	Provide written comments of the ad hoc, environmental crisis issue meeting, including action items or next steps.	Fifteen (15) days after conclusion of the meeting.

### **Task 6: (Logistics for Participants)**

NAS shall provide for the participation of qualified experts as discussed for EHMI business meeting(s), environmental public health issue workshop(s), and ad hoc environmental crisis issue meetings, within 30 days prior to each meeting or workshop. Make all arrangements for transportation, lodging and logistical support for each expert to participate in the meetings or workshops, which shall be held in Washington, D.C. or another location specified by EPA.

### **Task 6. Deliverables**

<b>Task</b>	<b>SubTask</b>	<b>Deliverable</b>	<b>Schedule</b>
6		Logistical Arrangements for Experts	Thirty (30) days prior to the meeting(s) and workshop(s).

## **VIII. ACCEPTANCE CRITERIA**

The Contractor shall prepare high quality products and that are reproducible and transparent. Figures submitted shall be of high quality similar to presentations developed for national scientific forums and should be formatted as jpeg or TIFF files. Deliverables shall be edited for grammar, spelling, and logic flow as well as, technical accuracy, completeness, timeliness, grammatically correct, free of typographical errors, and conformance with the specific task, charge and expertise and deliverables of this Performance Work Statement. The technical information shall be reasonable complete and presented in a logical, readable manner. Text deliverables shall be provided in Microsoft Word 2016, *Adobe Acrobat*, or compatible format. Deliverables will be accepted upon review and approval by the TOCOR.

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE		PAGE OF PAGES	
				1 14	
2. AMENDMENT/MODIFICATION NO. P00001		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
6. ISSUED BY CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		CODE CAD		5. PROJECT NO. (If applicable)	
		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) National Academy of Sciences Attn: JAMES BURKE 500 FIFTH STREET NW WASHINGTON DC 200012736		(X)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0011 68HERC20F0171	
CODE 041964057		FACILITY CODE		10B. DATED (SEE ITEM 13) 03/10/2020	

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.  
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor ☒ is not ☐ is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 041964057

TOCOR: GLENNIS RESLOCK Max Expire Date: 03/09/2022

The purpose of this modification is to incorporate the attached EPA blanket administrative modification signed by Raoul Scott on July 30, 2020. All other terms and conditions remain unchanged.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  ELECTRONIC SIGNATURE (Signature of Contracting Officer)	16C. DATE SIGNED 09/29/2020

Previous edition unusable



<b>CONTINUATION SHEET</b>	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0011/68HERC20F0171/P00001	PAGE	OF
		2	14

NAME OF OFFEROR OR CONTRACTOR  
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 03/10/2020 to 03/09/2022				

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE		PAGE	OF	PAGES
2. AMENDMENT/MODIFICATION NUMBER		3. EFFECTIVE DATE 08/13/2020	4. REQUISITION/PURCHASE REQUISITION NUMBER		5. PROJECT NUMBER (If applicable)		
6. ISSUED BY Raoul D. Scott, Director OMS/ARM/OAS/Policy, Training and Oversight Division US Environmental Protection Agency, Mail Code 3802R 1200 Pennsylvania Avenue, NW Washington, DC 20004		CODE	7. ADMINISTERED BY (If other than Item 6)		CODE		
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code)  To All EPA Contractors			<input checked="" type="checkbox"/> (X)		9A. AMENDMENT OF SOLICITATION NUMBER		
			<input type="checkbox"/>		9B. DATED (SEE ITEM 11)		
			<input checked="" type="checkbox"/> (X)		10A. MODIFICATION OF CONTRACT/ORDER NUMBER To all EPA Contracts and Orders		
			<input type="checkbox"/>		10B. DATED (SEE ITEM 13)		
CODE		FACILITY CODE					

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:  
 (a) By completing items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;  
 or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.  
IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor ☒ is not ☐ is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This contract/order is being modified in accordance with the applicability instructions in interim FAR Case 2019-009, and FAR 4.2105, requiring contracting officers to include FAR clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

See attached for the full text version of FAR 52.204-25. Contractor Acknowledgment of receipt required.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Raoul D. Scott, Director Policy, Training and Oversight Division	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  RAOUL SCOTT Digitally signed by RAOUL SCOTT Date: 2020.07.30 11:40:17 -04'00'	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

**STANDARD FORM 30 (REV. 11/2016)**  
Prescribed by GSA FAR (48 CFR) 53.243

## **52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.**

As prescribed in 4.2105(b) and in the applicability instructions in interim FAR Case 2019-009, insert the following clause:

### **Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)**

(a) Definitions. As used in this clause—

*Backhaul* means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

*Covered foreign country* means The People's Republic of China.

*Covered telecommunications equipment or services* means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

*Critical technology* means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

*Interconnection arrangements* means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

*Reasonable inquiry* means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

*Roaming* means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

*Substantial or essential component* means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) *Exceptions.* This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE		PAGE OF PAGES	
				1 14	
2. AMENDMENT/MODIFICATION NO. P00002		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
6. ISSUED BY CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		CODE CAD		5. PROJECT NO. (If applicable)	
		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) National Academy of Sciences Attn: JAMES BURKE 500 FIFTH STREET NW WASHINGTON DC 200012736		(X)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0011 68HERC20F0171	
				10B. DATED (SEE ITEM 13) 03/10/2020	
CODE 041964057		FACILITY CODE			

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.  
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor ☒ is not ☐ is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 041964057

TOCOR: GLENNIS RESLOCK Max Expire Date: 03/09/2022

The purpose of this modification is to incorporate the attached EPA blanket administrative modification signed by Raoul Scott on July 30, 2020. All other terms and conditions remain unchanged.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  ELECTRONIC SIGNATURE (Signature of Contracting Officer)	16C. DATE SIGNED 09/29/2020

Previous edition unusable

NAME OF OFFEROR OR CONTRACTOR  
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 03/10/2020 to 03/09/2022				



<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE		PAGE OF PAGES	
2. AMENDMENT/MODIFICATION NUMBER		3. EFFECTIVE DATE 08/13/2020		4. REQUISITION/PURCHASE REQUISITION NUMBER		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY Raoul D. Scott, Director OMS/ARM/OAS/Policy, Training and Oversight Division US Environmental Protection Agency, Mail Code 3802R 1200 Pennsylvania Avenue, NW Washington, DC 20004		7. ADMINISTERED BY (If other than Item 6)		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code)  To All EPA Contractors				<input checked="" type="checkbox"/> (X)		9A. AMENDMENT OF SOLICITATION NUMBER	
				<input type="checkbox"/>		9B. DATED (SEE ITEM 11)	
				<input checked="" type="checkbox"/> (X)		10A. MODIFICATION OF CONTRACT/ORDER NUMBER To all EPA Contracts and Orders	
				<input type="checkbox"/>		10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE					

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:  
 (a) By completing items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;  
 or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.  
IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input checked="" type="checkbox"/> (X)	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor ☒ is not ☐ is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This contract/order is being modified in accordance with the applicability instructions in interim FAR Case 2019-009, and FAR 4.2105, requiring contracting officers to include FAR clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

See attached for the full text version of FAR 52.204-25. Contractor Acknowledgment of receipt required.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Raoul D. Scott, Director Policy, Training and Oversight Division	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  RAOUL SCOTT Digitally signed by RAOUL SCOTT Date: 2020.07.30 11:40:17 -04'00'	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

## **52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.**

As prescribed in 4.2105(b) and in the applicability instructions in interim FAR Case 2019-009, insert the following clause:

### **Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)**

(a) Definitions. As used in this clause—

*Backhaul* means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

*Covered foreign country* means The People's Republic of China.

*Covered telecommunications equipment or services* means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

*Critical technology* means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

*Interconnection arrangements* means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

*Reasonable inquiry* means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

*Roaming* means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

*Substantial or essential component* means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) *Exceptions.* This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

# ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

3

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 06/30/2020		2. CONTRACT NO. (If any) 68HERC19D0011		6. SHIP TO: a. NAME OF CONSIGNEE CAD	
3. ORDER NO. 68HERC20F0314		4. REQUISITION/REFERENCE NO. PR-ORD-20-01103			
5. ISSUING OFFICE (Address correspondence to) CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				b. STREET ADDRESS US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136	
				c. CITY Cincinnati	e. ZIP CODE 45268-0001
7. TO: JAMES BURKE				f. SHIP VIA	
a. NAME OF CONTRACTOR National Academy of Sciences					
b. COMPANY NAME				8. TYPE OF ORDER	
c. STREET ADDRESS 500 FIFTH STREET NW				<input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY WASHINGTON		e. STATE DC	f. ZIP CODE 200012736		
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE Office of Research and Development	

11. BUSINESS CLASSIFICATION (Check appropriate box(es))				12. F.O.B. POINT	
<input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) <input type="checkbox"/> h. EDWOSB <input type="checkbox"/> VETERAN-OWNED ELIGIBLE UNDER THE WOSB PROGRAM					
13. PLACE OF		14. GOVERNMENT B/L NO.		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 05/31/2022	
a. INSPECTION Destination	b. ACCEPTANCE Destination			16. DISCOUNT TERMS	

## 17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 041964057 TOCOR: TIA GROVES Max Expire Date: 05/31/2022  Continued ...					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO:						
	a. NAME RTP Finance Center						\$1,245,285.00
	b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts						\$1,245,285.00
c. CITY Durham			d. STATE NC	e. ZIP CODE 27711		17(i) GRAND TOTAL	

22. UNITED STATES OF AMERICA BY (Signature)

06/30/2020

ELECTRONIC  
SIGNATURE

23. NAME (Typed)

William M. Yates

TITLE: CONTRACTING/ORDERING OFFICER

**ORDER FOR SUPPLIES OR SERVICES**  
**SCHEDULE - CONTINUATION**

PAGE NO  
2

**IMPORTANT:** Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 06/30/2020	CONTRACT NO. 68HERC19D0011	ORDER NO. 68HERC20F0314
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ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	Admin Office: CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001 Period of Performance: 06/30/2020 to 05/31/2022  2026RRC047:New task Order under CONTRACT NO.: #68HERC190011 to NAS. TOCOR: Tia Groves; CO William Yates  2026RRC047:New task Order under CONTRACT NO.: #68HERC190011 to NAS. TOCOR: Tia Groves; CO William Yates  Accounting Info: 20-21-C-26RR000-000FK6XR1-2532-26A5C-2 026RRC047-001 BFY: 20 EFY: 21 Fund: C Budget Org: 26RR000 Program (PRC): 000FK6XR1 Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 2026RRC047-001 Funding Flag: Complete Funded: \$983,925.00  2026RRC047:New task Order under CONTRACT NO.: #68HERC190011 to NAS. TOCOR: Tia Groves; CO William Yates				983,925.00	
0002	2026RRC047: Additional funding to meet the proposal.  Accounting Info: 19-20-C-26RR000-000FK6XR1-2532-26A5C-2 026RRC047-002 BFY: 19 EFY: 20 Fund: C Budget Org: 26RR000 Program (PRC): 000FK6XR1 Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 2026RRC047-002 Funding Flag: Complete Funded: \$9,113.00 Accounting Info: 19-20-C-26RR000-000FK8XPV-2532-26A5C-2 026RRC047-003 BFY: 19 EFY: 20 Fund: C Budget Org: 26RR000 Program (PRC): 000FK8XPV Budget (BOC): 2532 Cost: Continued ...				261,360.00	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$1,245,285.00

**ORDER FOR SUPPLIES OR SERVICES**  
**SCHEDULE - CONTINUATION**

PAGE NO  
3

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 06/30/2020	CONTRACT NO. 68HERC19D0011	ORDER NO. 68HERC20F0314
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ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	26A5C DCN - Line ID: 2026RRC047-003 Funding Flag: Complete Funded: \$48,532.00 Accounting Info: 19-20-C-26RR000-000FK9XR6-2532-26A5C-2 026RRC047-004 BFY: 19 EFY: 20 Fund: C Budget Org: 26RR000 Program (PRC): 000FK9XR6 Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 2026RRC047-004 Funding Flag: Complete Funded: \$16,034.00 Accounting Info: 20-21-C-26RR000-000FK6XR1-2532-26A5C-2 026RRC047-005 BFY: 20 EFY: 21 Fund: C Budget Org: 26RR000 Program (PRC): 000FK6XR1 Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 2026RRC047-005 Funding Flag: Complete Funded: \$71,177.00 Accounting Info: 20-21-C-26RR000-000FK8XPW-2532-26A5C-2 026RRC047-006 BFY: 20 EFY: 21 Fund: C Budget Org: 26RR000 Program (PRC): 000FK8XPW Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 2026RRC047-006 Funding Flag: Complete Funded: \$100,000.00 Accounting Info: 20-21-C-26RR000-000FK8-2532-26A5C-2026 RRC047-007 BFY: 20 EFY: 21 Fund: C Budget Org: 26RR000 Program (PRC): 000FK8 Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 2026RRC047-007 Funding Flag: Complete Funded: \$16,504.00					

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$0.00



## PERFORMANCE WORK STATEMENT

National Academy of Sciences (NAS)

Contract #68HERC190011

Task Order #68HERC20F0314

**I. TITLE:** Strategic Positioning of EPA's Research and Development Enterprise to Inform Future Environmental Protection: The Road Ahead

**EAS Short Title:** NAS Anticipatory Research Report

### II. Task Order Contracting Officer Representative(s):

<b>Task Order Contracting Officer Representative (TOCOR)</b> <b>Name:</b> Tia Groves <b>Office:</b> ORD/IO William Jefferson Clinton Building 1200 Pennsylvania Avenue, N.W. Mail Code: 8101R, Room No. 41218 Washington, DC 20460  <b>Phone:</b> 202-564-5709 <b>FAX:</b> 202-565-2494 <b>Email:</b> groves.tia@epa.gov	<b>Alternate Task Order Contracting Officer Representative (Alt. TOCOR)</b> <b>Name:</b> Robin Clarke <b>Office:</b> ORD/OSA William Jefferson Clinton Building 1200 Pennsylvania Avenue, N.W. Mail Code: 8105R, Room 41231 Washington, DC 20460  <b>Phone:</b> 202-564-6483 <b>FAX:</b> 202-564-2070 <b>Email:</b> clarke.robin@epa.gov
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### III. PERIOD OF PERFORMANCE:

Date of Task Order Award through 20 months following award.

### IV. PURPOSE OF TASK ORDER

The NAS shall develop a consensus report to inform how EPA might strategically position its research and development enterprise to support EPA's mission and to anticipate and respond to the future research needs of the Agency. Specifically, building on the 2012 NAS report, *Science for Environmental Protection: The Road Ahead*, the NAS is being requested to provide targeted advice on scientific and technological capabilities that EPA might require to meet the environmental challenges for the coming decades. The NAS shall examine advances in fields of science and ongoing research, and how these advances will impact the types of work done in EPA's Office of Research and Development (ORD) and how that work is accomplished. The NAS report shall span a time horizon of 10-15 years. The NAS study shall provide recommendations (including ones implementable in the near-term) on how ORD should strategically position itself to best take advantage of emerging science and technology to meet the current and future challenges EPA may face to fulfill its mission to protect human health and the environment.

### V. BACKGROUND

EPA's Office of Research and Development (ORD) provides the science, technical support, technology, and tools to support EPA's mission to protect human health and the environment. Broadly, ORD accomplishes this support through:

1. Research to Inform Agency Priorities – Conduct innovative and anticipatory research to solve longer-term environmental challenges and provide the scientific bases for future environmental protection. This research is applied to the range of EPA program and regional office needs.
2. Targeted Research to Meet Statutory Requirements and Specific Environmental Challenges – Provide research support to EPA program and regional offices, as well as states, tribes, and local communities, to help them respond to current environmental challenges.
3. Scientific and Technical Support – Offer unique expertise and translational capacity to assist EPA programs and regions, local, state and tribal governments, and other Federal agencies as they respond to both emergency and longer-term environmental issues.

The three types of ORD support are complementary. They build off and inform each other, providing the foundation for ORD to inform Agency priorities and decisions, both near and long-term. ORD's capacity to conduct innovative and anticipatory research is necessary to ensure that the latest science and technology informs Agency decision-making and solves longer-term environmental challenges. In addition, since statutes and laws often have lifecycles that differ from the continuous evolution of scientific information, ORD often needs to provide the translational capacity to apply new scientific information within the construct of existing statutes and laws. Having the capacity to drive the leading edge of science and to translate, adapt, and apply science to inform decision-making enables ORD to more effectively inform policy-making, and provide scientific and technical support.

Past experience in ORD has demonstrated the importance of understanding how scientific advances can impact the organization and, by extension, the Agency. For example, in the 1980's and 1990's, rapid advances in "-omics" technologies and corresponding developments in bioinformatics and computational methods created a unique opportunity to apply these technologies and approaches to toxicology. Recognizing these scientific advances, a computational toxicology program was established in 2002, with the National Center for Computational Toxicology (NCCT) being formally established in 2004. NCCT initially focused on endocrine disruption. The tools and methods developed during the early days of NCCT were brought to bear in 2010 as the Agency responded to the Deep Water Horizon oil spill, where they provided rapid evaluations of the toxicity of potential dispersants. These advances have enabled ORD to become a world leader in computational toxicology, and to provide critical scientific contributions as the Agency implements the amended Toxic Substances Control Act.

Similar anticipatory actions were conducted by ORD under the Environmental Monitoring and Assessment Program (EMAP, 1994-2006) to monitor and assess the status and trends of the Nation's ecological resources. EMAP developed an innovative probabilistic approach for monitoring ecosystem integrity and dynamics. When originally developed, EMAP demonstrated that a probabilistic approach could sufficiently identify impaired waters under the Clean Water Act (S. 305b). Today, EPA's Office of Water works with state, tribal, and federal partners to design and implement the National Aquatic Resource Surveys (NARS), using probabilistic monitoring to assess the quality of the Nation's aquatic resources. EMAP laid the foundation for this approach. If ORD had not conducted the research to establish EMAP in the 1990's, the

Agency would not have had a foundation to develop the NARS Program in the mid-2000's, and provide decision-makers and the public improved, statistically-valid, environmental information.

The National Research Council (NRC) has previously provided insights relevant to ORD anticipatory research, notably in the 2012 report, *Science for Environmental Protection: The Road Ahead*. This report provided recommendations that EPA better integrate systems thinking into its approaches to protecting human health and the environment, enhance science leadership within the Agency, and strengthen scientific capacity both within and outside EPA. The report also identified a number of current and future challenges. It also recommended that EPA develop a scanning capability to foresee emerging scientific approaches, examine ways to improve its management and use of large environmental datasets, build capacity to support innovation in environmental science and technology, and prioritize its research activities in light of an anticipated constrained budgetary environment. It is expected that the NAS will build on this report as well as activities of several of its relevant Boards, including efforts under development within the Environmental Health Matters Initiative (<http://nas-sites.org/envirohealthmatters/>).

### **Strategic Planning in ORD**

Over the last year, each of ORD's six national research programs developed a Strategic Research Action Plan (StRAP) to plan its research efforts for Fiscal Years 2019-2022. Collectively, the StRAPs lay the foundation for EPA's research programs to provide focused research that meets the Agency's statutory requirements and the goals outlined in the FY 2018-2022 U.S. EPA Strategic Plan and the Office of Research and Development Strategic Plan 2018 -2022. The StRAPs are designed to guide an ambitious research portfolio that delivers the science and engineering solutions the Agency needs to meet its goals now and into the future, while also cultivating an efficient, innovative, and responsive research enterprise. The strategic directions and outputs identified in each of the six StRAPs serve as planning guides for ORD's four centers to design specific research products to address partner and stakeholder needs. More information about ORD's organization and the StRAPs will be provided to the NAS in advance of the kick-off meeting.

One of ORD's three strategic goals relates to "informing and supporting Federal, state, tribal and local decision making." In developing the StRAPs, the national research programs engaged with and solicited input from a broad array of key stakeholders (<https://www.epa.gov/research/epa-research-supports-states>). This proposed project and its report will help inform future strategic planning in ORD that promotes these constructive partnerships.

## **VI. SCOPE OF WORK**

This Task Order (TO) builds on the broad recommendations from the 2012 NRC report by requesting the NAS to examine current and anticipated scientific and technological advances, and their potential impacts on ORD and its capacity to provide timely research to inform Agency priorities. The NAS is asked to convene a Committee to identify emerging scientific advances potentially applicable to the Agency's mission, as well as to provide actionable recommendations on how ORD might consider incorporating emerging science into the Agency's research planning, so that ORD becomes an increasingly impactful organization.

## VII. DESCRIPTION OF TASKS

For the duration of the project, across all tasks, monthly written progress reports shall be provided to the Contracting Officer (CO), Contract Level COR (CL COR) and Task Order Contracting Officer Representative (TOCOR). These reports shall include a description of the work progress completed, any difficulties encountered, anticipated activities/schedule, and an invoice.

### **Task 1: Establish a Committee**

The NAS shall establish an ad hoc Committee of approximately 20 experts from academia, non-governmental/public interest organizations, private industry, and Federal, state, tribal, and local governments. Committee membership should be balanced with approximately equal participation across the groups identified above and is encouraged to take into account geographical diversity. Collectively, Committee member expertise shall encompass the physical, chemical, biological, environmental, and social sciences; exposure science; public health; engineering; informatics/information technology; risk assessment, risk management, and environmental policy decision-making. The NAS is encouraged to include among the Committee an individual(s) with expertise in strategic foresight and/or identification of new and emerging science and technology. The NAS is also encouraged to include among the Committee an individual(s) with expertise/familiarity in the communication and application of scientific information in environmental policymaking.

The Committee membership shall be for a minimum of 12 months and a maximum of 20 months.

#### ***Subtask 1.1 – Kickoff meeting***

An initial kickoff meeting shall be held between EPA and NAS management for the project to discuss the broad outlines of the requested report, and address any questions raised by the NAS that would inform the development of the Committee.

### **Task 1. Deliverables**

Auto	SubTask	Deliverable	Schedule
1	N/A	Establish a Committee. – Transmit a copy of committee membership to CL COR and TOCOR.	Within 3 months of the date of task order award.
1	1.1	Kickoff Meeting	Within 14 days of the date of task order award.

### **Task 2: Convene Workshop(s)/Meeting(s) to Support Report Development**

The NAS shall convene and hold up to five (5) workshops and/or public meetings, with open and closed portions of the meeting(s), to facilitate the exchange of ideas from Committee members and stakeholders on the topics related to its report. The number of meetings specified in Task 2 should not be construed to include internal Committee meetings necessary to develop a consensus report. One (1) workshop shall be convened to hear perspectives and needs from EPA program and regional leaders, as well as states, on issues of current or emerging concern. Additionally, the workshop should seek the perspective of ORD

leadership on the existing and anticipatory research components of ORD's national research programs. Other potential workshop or public meeting topics to support the NAS report development may include discussions on emerging issues in the environmental and human health sciences, strategic foresight, and scientific horizon scanning/scenario planning. Workshops and/or public meetings should include the opportunity for public comment.

Advance notice of the workshops and/or meetings identified in this task shall be provided to the TOCOR and CL COR via email 90 days in advance of the time, location, and agenda of all workshops and/or meetings. All communications regarding public meetings should go through the TOCOR and CL COR. The NAS should also provide an agenda of the public portion of all workshops and/or meetings in accordance with Section 15 of the FACA, which requires a contractor to "summarize" certain aspects of non-public meetings and make the summary available through their website. If public websites or similar means are used to disseminate information to the public, the TOCOR and CL COR shall be notified of the location of such information (e.g., website addresses, as well as all relevant changes to them).

### **Task 2. Deliverables**

<b>Task</b>	<b>SubTask</b>	<b>Deliverable</b>	<b>Schedule</b>
2		Hold at least one, and up to five workshops and/or public meetings to inform report development.	At least one workshop must be held no later than 6 months after establishing the Committee. All workshops shall be completed within 18 months from the date of task order award.

### **COVID Considerations**

The NAS shall conduct some or all meetings, including the workshops, as virtual meetings if face-to-face meetings are not possible. Options for face-to-face and virtual meetings shall be included in the proposal.

### **Task 3: Develop a Consensus Report**

The Committee shall develop recommendations in a consensus report that identifies, 1) the areas of emerging/evolving science and/or research advances that ORD should consider in its research and organizational planning over the next 10-20 years, and 2) recommendations on potential approaches to incorporate scientific advances and innovative technologies/tools to position ORD to anticipate and respond to future research needs, thereby better meeting the needs of EPA decision-makers. In making its recommendations on approaches, the Committee shall consider the array of current approaches and tools ORD has available to address emerging science (intramural research, grants, cooperative agreements, interagency agreements), and whether a given approach (or combination) would best address a future environmental issue.

The Committee shall consider past reports and analyses by the NAS and/or other organizations, as well as presentations and documentation provided by EPA (e.g., the Strategic Research Action Plans for ORD's national research programs). In identifying emerging scientific advances, the Committee shall indicate how

mature an emerging scientific area is, and its applicability to environmental issues, so that ORD may prioritize its approach to responding.

In performing its task, the Committee should consider the Agency's mission and its current initiatives, and may consider other broader topics including, but not limited to, the following:

- **Biotechnology** – What recent advances in biotechnology and associated fields warrant the greatest attention and offer potential application to human health and environmental decision making? How should ORD apply advances in biotechnology in its research program?
- **Big Data** – Are there strategies or actions ORD should take to address the increasing sources, volume, and diversity of data? How should ORD ensure it has capacity to manage, analyze, and share data used to inform Agency decisions?
- **Climate Impacts**– Are there emerging areas in science and technology that ORD should examine to better understand the role of climate as a stressor (e.g., biodiversity, air quality, etc.)?
- **Environmental Monitoring and Sensors** – How should ORD capitalize on the rapid advances in sensor technology to better understand environmental exposures? What additional advances in sampling protocols and analytical techniques are needed to understand emerging threats?
- **Impacts of Stressors on Ecological and Human Health** – Are there new technologies or methodological approaches that can build on existing advances in computational toxicology and computational exposure to address emerging threats and better characterize the impact of stressors? Stressors should be defined broadly to include chemical, biological, radiological, and physical as well as any other environmental factors identified by the Committee.
- **Artificial Intelligence (AI)/Machine Learning** – AI and/or machine learning are already impacting our lives. How should ORD apply current, and prepare for future, advances in AI/machine learning to enhance our ability to inform innovative approaches to the protection of human health and the environment?
- **Cross-cutting topics** – Are there opportunities to apply emerging science across fields to advance human health and environmental protection? For example, while EPA collects large and diverse types of monitoring data from numerous sources, we may only use a subset of that information. How might ORD integrate monitoring, big data, and AI to produce an early warning system for environmental and human health issues before they become problems? This is an example of a question that cuts across the topics listed above. The Committee is encouraged to identify other cross-cutting topics, including those involving fields not identified above.

### ***Subtask 3.1 – Prepublication draft of report***

EPA requires that NAS provide a prepublication draft of the report no later than 14 days prior to public release of the report, or 14 days before the end of the period of performance, whichever occurs first.

### ***Subtask 3.2 – Pre-release briefing for ORD***

EPA requires that NAS provide a briefing for senior ORD leadership on the report, including participation from the Committee members, prior to the public release of the report. The briefing

should occur no later than 14 days prior to the public release of the report, or 14 days before the end of the period of performance, whichever occurs first.

***Subtask 3.3. – Release of final report***

The final consensus report should be completed and made publicly available 14 days following transmittal of the prepublication draft to the TOCOR and CL COR, and no later than the end of the period of performance.

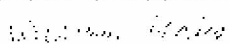
***Task 3. Deliverables***

Task	SubTask	Deliverable	Schedule
3	3.1	Prepublication draft of report	14 days prior to public release of report. No later than 14 days prior to the end of the period of performance.
3	3.2	Briefing for senior ORD leadership on report.	3 days prior to public dissemination of the report. No later than 3 days prior to the end of the period of performance.
3	3.3	Final report	14 days after transmittal of the prepublication draft to EPA. No later than 30 months after the date of task order award.

**VIII. ACCEPTANCE CRITERIA**

The Contractor shall prepare high quality products and that are reproducible and transparent. Figures submitted shall be of high quality similar to presentations developed for national scientific forums and should be formatted as jpeg or TIFF files. Deliverables shall be edited for grammar, spelling, and logic flow. The technical information shall be reasonable complete and presented in a logical, readable, manner. Text deliverables shall be provided as 508-compliant documents in Microsoft Word 2010 or compatible format and PDF.



<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE		PAGE OF PAGES	
						1      3	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00001		See Block 16C		PR-ORD-20-02547			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x)			
National Academy of Sciences Attn: JAMES BURKE 500 FIFTH STREET NW WASHINGTON DC 200012736				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				x			
				10A. MODIFICATION OF CONTRACT/ORDER NO.			
				68HERC19D0011			
				68HERC20F0314			
				10B. DATED (SEE ITEM 13)			
				06/30/2020			
CODE 041964057		FACILITY CODE					
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
See Schedule							
<b>13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
X	52.204-25 Prohibition on Contracting for Certain Telecomm						
<b>E. IMPORTANT:</b> Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 041964057							
TOCOR: TIA GROVES Max Expire Date: 05/31/2022							
LIST OF CHANGES:							
The purpose of this modification will be to de-obligate FY 20/21 funding in the amount of \$101,721.00 and add FY 19/20 funding in the amount of \$101,721.00. In addition, this modification will also incorporate the attached EPA blanket administrative modification signed by Raoul Scott on July 30, 2020.							
CHANGES FOR LINE ITEM NUMBER: 1							
NEW ACCOUNTING CODE ADDED:							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
				 (Signature of Contracting Officer)		09/29/2020 ELECTRONIC SIGNATURE	
(Signature of person authorized to sign)							



<b>CONTINUATION SHEET</b>	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0011/68HERC20F0314/P00001	PAGE	OF
		2	3

NAME OF OFFEROR OR CONTRACTOR  
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Account code: 19-20-C-26RR000-000FK8XPW-2532-26A5C-004 Beginning FiscalYear 19 Ending Fiscal Year 20 Fund (Appropriation) C Budget Organization 26RR000 Program (PRC) 000FK8XPW Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 004 Quantity: 0 Amount: \$9,525.00  NEW ACCOUNTING CODE ADDED: Account code: 19-20-C-26RR000-000F84-2532-26A5C-002 Beginning FiscalYear 19 Ending Fiscal Year 20 Fund (Appropriation) C Budget Organization 26RR000 Program (PRC) 000F84 Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 002 Quantity: 0 Amount: \$85,825.00  NEW ACCOUNTING CODE ADDED: Account code: 19-20-C-26RR000-000F72XPC-2532-26A5C-001 Beginning FiscalYear 19 Ending Fiscal Year 20 Fund (Appropriation) C Budget Organization 26RR000 Program (PRC) 000F72XPC Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 001 Quantity: 0 Amount: \$5,211.00  Continued ...				

<b>CONTINUATION SHEET</b>	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0011/68HERC20F0314/P00001	PAGE	OF
		3	3

NAME OF OFFEROR OR CONTRACTOR  
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>NEW ACCOUNTING CODE ADDED:</p> <p>Account code:</p> <p>19-20-C-26RR000-000FK6XR2-2532-26A5C-003</p> <p>Beginning FiscalYear 19</p> <p>Ending Fiscal Year 20</p> <p>Fund (Appropriation) C</p> <p>Budget Organization 26RR000</p> <p>Program (PRC) 000FK6XR2</p> <p>Budget (BOC) 2532</p> <p>Job # (Site/Project)</p> <p>Cost Organization 26A5C</p> <p>DCN-LineID 003</p> <p>Quantity: 0</p> <p>Amount: \$1,160.00</p> <p>CHANGES FOR ACCOUNTING CODE:</p> <p>20-21-C-26RR000-000FK6XR1-2532-26A5C-2026RRC047-001</p> <p>Amount changed from \$983,925.00 to \$882,204.00</p> <p>Payment:</p> <p>RTP Finance Center</p> <p>US Environmental Protection Agency</p> <p>RTP-Finance Center (AA216-01)</p> <p>109 TW Alexander Drive</p> <p><a href="http://www2.epa.gov/financial/contracts">www2.epa.gov/financial/contracts</a></p> <p>Durham NC 27711</p> <p>Period of Performance: 06/30/2020 to 05/31/2022</p>				

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE		PAGE OF PAGES	
2. AMENDMENT/MODIFICATION NUMBER		3. EFFECTIVE DATE 08/13/2020		4. REQUISITION/PURCHASE REQUISITION NUMBER		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY Raoul D. Scott, Director OMS/ARM/OAS/Policy, Training and Oversight Division US Environmental Protection Agency, Mail Code 3802R 1200 Pennsylvania Avenue, NW Washington, DC 20004		7. ADMINISTERED BY (If other than Item 6)		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code)  To All EPA Contractors				<input checked="" type="checkbox"/> (X)		9A. AMENDMENT OF SOLICITATION NUMBER	
				<input type="checkbox"/>		9B. DATED (SEE ITEM 11)	
				<input checked="" type="checkbox"/> (X)		10A. MODIFICATION OF CONTRACT/ORDER NUMBER To all EPA Contracts and Orders	
				<input type="checkbox"/>		10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE					

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:  
 (a) By completing items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;  
 or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.  
IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor ☒ is not ☐ is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This contract/order is being modified in accordance with the applicability instructions in interim FAR Case 2019-009, and FAR 4.2105, requiring contracting officers to include FAR clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

See attached for the full text version of FAR 52.204-25. Contractor Acknowledgment of receipt required.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Raoul D. Scott, Director Policy, Training and Oversight Division	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  RAOUL SCOTT Digitally signed by RAOUL SCOTT Date: 2020.07.30 11:40:17 -04'00'	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

**STANDARD FORM 30 (REV. 11/2016)**  
Prescribed by GSA FAR (48 CFR) 53.243

## **52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.**

As prescribed in 4.2105(b) and in the applicability instructions in interim FAR Case 2019-009, insert the following clause:

### **Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)**

(a) Definitions. As used in this clause—

*Backhaul* means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

*Covered foreign country* means The People's Republic of China.

*Covered telecommunications equipment or services* means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

*Critical technology* means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

*Interconnection arrangements* means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

*Reasonable inquiry* means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

*Roaming* means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

*Substantial or essential component* means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) *Exceptions.* This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

# ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

3

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 07/01/2020		2. CONTRACT NO. (If any) 68HERC19D0011		6. SHIP TO: a. NAME OF CONSIGNEE CAD	
3. ORDER NO. 68HERC20F0315		4. REQUISITION/REFERENCE NO. PR-ORD-20-01105			
5. ISSUING OFFICE (Address correspondence to) CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				b. STREET ADDRESS US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136	
				c. CITY Cincinnati	e. ZIP CODE 45268-0001
7. TO: JAMES BURKE				f. SHIP VIA	
a. NAME OF CONTRACTOR National Academy of Sciences					
b. COMPANY NAME				8. TYPE OF ORDER	
c. STREET ADDRESS 500 FIFTH STREET NW				<input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY WASHINGTON		e. STATE DC	f. ZIP CODE 200012736		
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE Office of Research and Development	

11. BUSINESS CLASSIFICATION (Check appropriate box(es))				12. F.O.B. POINT	
<input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB					
13. PLACE OF		14. GOVERNMENT B/L NO.		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 06/30/2021	
a. INSPECTION Destination	b. ACCEPTANCE Destination			16. DISCOUNT TERMS	

## 17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 041964057 TOCOR: TIA GROVES Max Expire Date: 06/30/2021  Continued ...					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO:						
	a. NAME RTP Finance Center						\$289,340.08
	b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts						\$289,340.08
c. CITY Durham				d. STATE NC	e. ZIP CODE 27711		17(i) GRAND TOTAL

22. UNITED STATES OF AMERICA BY (Signature) 07/01/2020

ELECTRONIC SIGNATURE

23. NAME (Typed)  
William M. Yates  
TITLE: CONTRACTING/ORDERING OFFICER



**ORDER FOR SUPPLIES OR SERVICES**  
**SCHEDULE - CONTINUATION**

PAGE NO  
2

**IMPORTANT:** Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 07/01/2020	CONTRACT NO. 68HERC19D0011	ORDER NO. 68HERC20F0315
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ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	<p>Admin Office: CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001 Period of Performance: 07/01/2020 to 06/30/2021</p> <p>2026RRC048: New Task Order under Contract #68HERC19D0011 Titled: Workshop on Federal Government Human Health PFAS Research. TOCOR is Tia Groves; CO William Yates</p> <p>2026RRC048: New Task Order under Contract #68HERC19D0011 Titled: Workshop on Federal Government Human Health PFAS Research. TOCOR is Tia Groves; CO William Yates</p> <p>Accounting Info: 20-21-C-26RR000-000FK6XR2-2532-26A5C-2 026RRC048-001 BFY: 20 EFY: 21 Fund: C Budget Org: 26RR000 Program (PRC): 000FK6XR2 Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 2026RRC048-001 Funding Flag: Complete Funded: \$216,978.08</p> <p>Accounting Info: 20-21-C-26RR000-000FK7XR3-2532-26A5C-2 026RRC048-002 BFY: 20 EFY: 21 Fund: C Budget Org: 26RR000 Program (PRC): 000FK7XR3 Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 2026RRC048-002 Funding Flag: Complete Funded: \$50,000.00</p> <p>Accounting Info: 20-21-C-26RR000-000F84-2532-26A5C-2026 RRC048-003 BFY: 20 EFY: 21 Fund: C Budget Org: 26RR000 Program (PRC): 000F84 Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 2026RRC048-003 Funding Flag: Complete Funded: \$22,362.00</p> <p>2026RRC048: New Task Order under Contract #68HERC19D0011 Titled: Workshop on Federal Continued ...</p>				289,340.08	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$289,340.08

ORDER FOR SUPPLIES OR SERVICES  
SCHEDULE - CONTINUATION

PAGE NO  
3

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER	CONTRACT NO.	ORDER NO.
07/01/2020	68HERC19D0011	68HERC20F0315

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	Government Human Health PFAS Research. TOCOR is Tia Groves; CO William Yates					

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$0.00

Performance Work Statement  
National Academy of Sciences (NAS)  
Contract #68HERC19D0011  
Task Order #68HERC20F0315

**I. TITLE:** Workshop on Federal Government Human Health PFAS Research

**II. Task Order Contracting Officer Representative(s):**

<b>Task Order Contracting Officer Representative (TOCOR)</b> <b>Name:</b> Tia Groves <b>Office:</b> Immediate Office of the Assistant Administrator  <b>1200 Pennsylvania Ave NW</b> <b>Washington, DC 20460</b> <b>Phone:</b> 202-564-5709 <b>Email:</b> groves.tia@epa.gov	<b>Alternate Task Order Contracting Officer Representative (Alt. TOCOR)</b> <b>Name:</b> Robin Clarke <b>Office:</b> Immediate Office of the Assistant Administrator  <b>1200 Pennsylvania Ave NW</b> <b>Washington, DC 20460</b> <b>Phone:</b> 202-564-6493 <b>Email:</b> clarke.robin@epa.gov
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**III. PERIOD OF PERFORMANCE:** Date of Task Order award through 12 months following award. Additional funding for this award will be provided by other Federal Agency partners

**A. Purpose**

The National Academies of Sciences, Engineering, and Medicine shall host a public workshop to allow for the presentation of federal research on Perfluoroalkyl and polyfluoroalkyl substances (PFAS). The NAS shall convene an expert committee to review submissions and presentations related to human health hazard and exposure research areas and provide a Workshop Report (that takes into consideration workshop meeting minutes and submittals) to participating Federal Agencies that outlines crucial research and data gaps and summarizes the views of participants on how to ensure that the Federal research program for PFAS is robust and focused on addressing the highest priority human health concerns.

**B. Background**

Perfluoroalkyl and polyfluoroalkyl substances (PFAS) are a family of diverse fluorinated organic compounds that have been used in firefighting, chrome plating, as lubricants, in medical devices, and to coat and treat surfaces like carpeting, packaging, and cookware. Their manufacture and use have led to widespread distribution and occurrence in the environment. PFAS can be highly mobile and persistent in the environment, making cleanup a challenge. Depending on chemical structure, PFAS can accumulate at different levels in human, animal, and plant tissue and may be associated with a diverse set of adverse health effects.

Federal Agencies are spending significant resources to better understand PFAS chemistries, sample collection, compound identification and quantification, toxicities (including health effects in humans), fate and transport, occurrence and exposure, environmental removal and degradation, treatment, and evaluation of substitutes. U.S. Federal Agencies conducting research on PFAS include USDA, EPA, DoD, HHS (NIH, NIEHS, ATSDR/CDC, FDA), DOI (USGS), DOT, and DHS.

The scientific and technical input that would be provided by this task order would help to ensure the robustness of Federal research programs in this important area. The NAS is widely viewed as an impartial, knowledgeable, and respected organization, capable of ensuring audience acceptance about products with which it is associated. The NAS is also able to provide ready access to the full range of scientific and technical experts and to thoroughly screen such experts for conflicts of interests. By providing a mechanism to ensure participation with diverse scientific and technical input from experts identified and assembled by the NAS, the Federal Agencies can benefit from collaboration with the NAS.

### **C. Tasks**

#### **Task 1 – Workshop on Federal PFAS Research Related to Human Health**

NAS shall convene a 2-day workshop to discuss the current state of federal research on Perfluoroalkyl and polyfluoroalkyl substances (PFAS) with a focus on human health hazards and human exposure to PFAS.

##### ***Subtask 1.1. – Establish coordination calls with Federal Agencies:***

NAS shall convene a planning meeting(s) with the Federal Agency Task Order Contracting Officer Representative (TOCOR), and all Federal Agencies conducting research on PFAS. Participating Federal Agencies will identify their representative leads. This meeting(s) shall: identify agenda/topic areas and agency leads; discuss the fields of expertise that NAS should consider as necessary to provide input and comment on the federal research agendas; and deliberate any other relevant planning issues. In coordination with the TOCOR, NAS shall convene the first meeting within 2 weeks of the federal agencies identifying their representative leads. The workshop planning committee will make the final decisions about what expertise to include in the workshop.

##### ***Subtask 1.2. – Establish a workshop planning committee:***

NAS shall identify a proposed workshop planning committee of at least 10 subject matter experts who are recognized experts in the field(s) relevant to the request; represent a range of broadly recognized views on the issues identified by Federal Agencies; are available to participate and discuss their individual views at the workshop; are willing to participate in the development of a workshop report; and have been evaluated for conflict of interest in accordance with established NAS procedures. The funding Agencies may provide a list of experts for consideration.

EPA and other agencies will have the opportunity to comment on the provisional committee roster when NAS publishes it for a 20-day comment period. The NAS shall determine who will serve on the committee.

***Subtask 1.3. – Make arrangements for logistical support for each planning committee member and other experts asked to participate in the workshop:***

NAS shall make arrangements for logistical support for the planning committee and other experts to participate in the workshop, which will be held online.

***Subtask 1.4. – Conduct the workshop(s)/meeting(s):***

NAS shall host a 2-day virtual workshop. The workshop shall allow for broad public participation. The workshop shall take place within 120 days of the start of the NAS contract.

***Subtask 1.5 – Develop Workshop Output:***

NAS shall prepare a final report reflecting committee findings on the research topics covered at the workshop. The report shall focus on identifying research gaps that the committee finds would be beneficial in responding to human health concerns related to PFAS. The workshop report, prepared by a rapporteur in accordance with NAS procedures, will also respond to specific questions identified by the federal agencies and provided by the TOCOR. The final report shall be delivered to the TOCOR, Contracting Officer (CO), and Contract Level CO Representative (CL-COR) 75 days following the conclusion of the workshop.

During the workshop, participants, including the planning committee, shall comment and provide input on the robustness of the Agencies' research, focusing on the identification of knowledge or research gaps, in the following areas:

- 1) Human health hazards, including
  - a. Identification and characterization of health effects or bioactivities of interest in human populations.
  - b. Criteria/factors to be considered when addressing a variety of different health effects within the decision-making process (i.e., severity vs. dose).
  - c. Approaches for extrapolating from animal health effects to human health effects.
  - d. Toxicokinetic and toxicodynamic issues related to extrapolating across species. For example, will toxicokinetic research increase understanding related to the default assumption of toxicity increasing in direct relationship with the half-life of PFAS? Will toxicodynamic research increase understanding of cross-species sensitivity for health effects (such as immune, liver, thyroid, reproductive/development effects)?
  - e. Approach(es) for identification and use of PFAS additivity, synergism, or antagonism.
  - f. Defining a class-based approach to characterizing PFAS health effects.
- 2) Human exposures, including
  - a. Approaches for prospective biomonitoring of human populations at greatest risk.
  - b. Identification of exposure sources and potential exposure pathways including the determination of relative source contribution for the different exposure pathways, including airborne fate and transport.

- c. Consideration of potential ecotoxicological and ecotoxicokinetic issues which may impact human exposures, e.g. through agricultural or subsistence food web pathways.

Workshop participants shall not be limited to only these research areas and may comment on other identified research gaps and priorities responding to human health concerns related to PFAS as appropriate. However Federal Agencies would like to ensure these critical research areas are addressed.

### **Task 2 (Optional):**

The EPA may require the NAS host an additional workshop(s), as a result of this effort. In the event an additional workshop(s) is needed, this TO contract (PWS) will be amended.

### **D. COVID Considerations**

The NAS shall conduct all meetings, including the workshop itself, as virtual meetings.

### **E. Deliverables:**

The products of the NAS tasks for this activity are as follows:

- a) Final planning committee list;
- b) Hosting and organization of a public workshop with broad audience attendance; and
- c) Prepublication Workshop Report to be produced and delivered **75** days following the conclusion of the workshop. The report will be a rapporteur-authored proceedings prepared and peer reviewed in accord with NAS procedures. The final (fully formatted) workshop report will be delivered within 120 days following the conclusion of the workshop.

### **F. Oversight**

All interactions concerning charge, scope, expertise, milestone, meetings dates, meeting agendas, and deliverables under this Task Order shall be restricted to the EPA Contracting Officers (CO) and TOCOR.

### **GF. Acceptance**

Administrative acceptance of contract deliverables will be by the EPA TOCOR.

### **H. Acceptance Criteria**

NAS shall prepare and deliver electronic word documents and Prepublication and Final Workshop Report that are technically accurate, complete, timely, grammatically correct, and free of grammatical and spelling errors. These documents and reports shall conform to the specific task, charge, expertise, and deliverables of the Task Order.

### **Participating Federal Agency Contact Information:**

**Federal Agency Research Partners:**

Department of Defense  
Dr. Herbert Nelson  
[herbert.h.nelson10.civ@mail.mil](mailto:herbert.h.nelson10.civ@mail.mil)

US Department of Agriculture  
John Pirchio  
[john.pirchio@usda.gov](mailto:john.pirchio@usda.gov)  
(202) 720-1208 Office

Health and Human Services  
POC TBD

Department of Energy  
POC TBD

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. P00001		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY CAD		7. ADMINISTERED BY (If other than Item 6) CODE	
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001					
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) National Academy of Sciences Attn: JAMES BURKE 500 FIFTH STREET NW WASHINGTON DC 200012736		(X)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0011 68HERC20F0315	
				10B. DATED (SEE ITEM 13) 07/01/2020	
CODE 041964057		FACILITY CODE			

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.  
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor ☒ is not ☐ is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 041964057

TOCOR: TIA GROVES Max Expire Date: 06/30/2021

The purpose of this modification is to incorporate the attached EPA blanket administrative modification signed by Raoul Scott on July 30, 2020 and to add "Participating Federal Agency Contacts Information" to the PWS.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  ELECTRONIC SIGNATURE (Signature of Contracting Officer)	16C. DATE SIGNED 09/24/2020

Previous edition unusable

STANDARD FORM 30 (REV. 11/2016)  
Prescribed by GSA FAR (48 CFR) 53.243



<b>CONTINUATION SHEET</b>	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0011/68HERC20F0315/P00001	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR  
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 07/01/2020 to 06/30/2021				

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE		PAGE	OF	PAGES
2. AMENDMENT/MODIFICATION NUMBER		3. EFFECTIVE DATE 08/13/2020	4. REQUISITION/PURCHASE REQUISITION NUMBER		5. PROJECT NUMBER (If applicable)		
6. ISSUED BY Raoul D. Scott, Director OMS/ARM/OAS/Policy, Training and Oversight Division US Environmental Protection Agency, Mail Code 3802R 1200 Pennsylvania Avenue, NW Washington, DC 20004		CODE	7. ADMINISTERED BY (If other than Item 6)		CODE		
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code)  To All EPA Contractors			<input checked="" type="checkbox"/> (X)		9A. AMENDMENT OF SOLICITATION NUMBER		
			<input type="checkbox"/>		9B. DATED (SEE ITEM 11)		
			<input checked="" type="checkbox"/> (X)		10A. MODIFICATION OF CONTRACT/ORDER NUMBER To all EPA Contracts and Orders		
			<input type="checkbox"/>		10B. DATED (SEE ITEM 13)		
CODE		FACILITY CODE					

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:  
 (a) By completing items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;  
 or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.  
IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor ☒ is not ☐ is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This contract/order is being modified in accordance with the applicability instructions in interim FAR Case 2019-009, and FAR 4.2105, requiring contracting officers to include FAR clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

See attached for the full text version of FAR 52.204-25. Contractor Acknowledgment of receipt required.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Raoul D. Scott, Director Policy, Training and Oversight Division	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  RAOUL SCOTT Digitally signed by RAOUL SCOTT Date: 2020.07.30 11:40:17 -04'00'	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

## **52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.**

As prescribed in 4.2105(b) and in the applicability instructions in interim FAR Case 2019-009, insert the following clause:

### **Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)**

(a) Definitions. As used in this clause—

*Backhaul* means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

*Covered foreign country* means The People's Republic of China.

*Covered telecommunications equipment or services* means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

*Critical technology* means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

*Interconnection arrangements* means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

*Reasonable inquiry* means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

*Roaming* means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

*Substantial or essential component* means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) *Exceptions.* This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE		PAGE OF PAGES	
				1 2	
2. AMENDMENT/MODIFICATION NO. P00002		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
6. ISSUED BY CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		CODE CAD		5. PROJECT NO. (If applicable)	
		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) National Academy of Sciences Attn: JAMES BURKE 500 FIFTH STREET NW WASHINGTON DC 200012736		(X)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0011 68HERC20F0315	
CODE 041964057		FACILITY CODE		10B. DATED (SEE ITEM 13) 07/01/2020	

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.  
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor ☒ is not ☐ is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

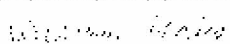
DUNS Number: 041964057

TOCOR: TIA GROVES Max Expire Date: 06/30/2021

The purpose of this modification is to incorporate the attached EPA blanket administrative modification signed by Raoul Scott on July 30, 2020. All other terms and conditions remain unchanged.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 09/29/2020

Previous edition unusable

<b>CONTINUATION SHEET</b>	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0011/68HERC20F0315/P00002	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR  
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 07/01/2020 to 06/30/2021				



<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE		PAGE	OF	PAGES
2. AMENDMENT/MODIFICATION NUMBER		3. EFFECTIVE DATE 08/13/2020	4. REQUISITION/PURCHASE REQUISITION NUMBER		5. PROJECT NUMBER (If applicable)		
6. ISSUED BY Raoul D. Scott, Director OMS/ARM/OAS/Policy, Training and Oversight Division US Environmental Protection Agency, Mail Code 3802R 1200 Pennsylvania Avenue, NW Washington, DC 20004		CODE	7. ADMINISTERED BY (If other than Item 6)		CODE		
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code)  To All EPA Contractors			<input checked="" type="checkbox"/> (X)		9A. AMENDMENT OF SOLICITATION NUMBER		
			<input type="checkbox"/>		9B. DATED (SEE ITEM 11)		
			<input checked="" type="checkbox"/> (X)		10A. MODIFICATION OF CONTRACT/ORDER NUMBER To all EPA Contracts and Orders		
			<input type="checkbox"/>		10B. DATED (SEE ITEM 13)		
CODE		FACILITY CODE					

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:  
 (a) By completing items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;  
 or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.  
IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor ☒ is not ☐ is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This contract/order is being modified in accordance with the applicability instructions in interim FAR Case 2019-009, and FAR 4.2105, requiring contracting officers to include FAR clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

See attached for the full text version of FAR 52.204-25. Contractor Acknowledgment of receipt required.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Raoul D. Scott, Director Policy, Training and Oversight Division	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  RAOUL SCOTT Digitally signed by RAOUL SCOTT Date: 2020.07.30 11:40:17 -04'00'	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

**STANDARD FORM 30 (REV. 11/2016)**  
Prescribed by GSA FAR (48 CFR) 53.243

## **52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.**

As prescribed in 4.2105(b) and in the applicability instructions in interim FAR Case 2019-009, insert the following clause:

### **Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)**

(a) Definitions. As used in this clause—

*Backhaul* means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

*Covered foreign country* means The People's Republic of China.

*Covered telecommunications equipment or services* means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

*Critical technology* means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

*Interconnection arrangements* means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

*Reasonable inquiry* means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

*Roaming* means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

*Substantial or essential component* means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) *Exceptions.* This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

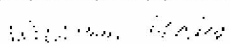
(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE		PAGE OF PAGES	
				1		2	
2. AMENDMENT/MODIFICATION NO. P000003		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO. PR-ORD-21-00160		5. PROJECT NO. (If applicable)	
6. ISSUED BY CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		CODE CAD		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)  National Academy of Sciences Attn: JAMES BURKE 500 FIFTH STREET NW WASHINGTON DC 200012736				(X) 9A. AMENDMENT OF SOLICITATION NO.			
				X 10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0011 68HERC20F0315			
CODE 041964057		FACILITY CODE					
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required) See Schedule							
<b>13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
<b>E. IMPORTANT:</b> Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 041964057							
TOCOR: TIA GROVES Max Expire Date: 06/30/2021							
LIST OF CHANGES:							
Reason for Modification: The purpose of this modification will be to de-obligate funding from line one in the amount of \$72,335 and replace the \$72,335 with CR funding. The net result for this mod will be zero dollars.							
CHANGES FOR LINE ITEM NUMBER: 1							
CHANGES FOR ACCOUNTING CODE:							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 11/06/2020	

<b>CONTINUATION SHEET</b>	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0011/68HERC20F0315/P00003	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR  
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>20-21-C-26RR000-000FK6XR2-2532-26A5C-2026RRC048-001</p> <p>Amount changed from \$216,978.08 to \$144,643.08</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 20-21-CR-26RRX01-000FK8XPV-2532-26A5C-2126RRC002-001</p> <p>Beginning FiscalYear 20 Ending Fiscal Year 21 Fund (Appropriation) CR Budget Organization 26RRX01 Program (PRC) 000FK8XPV Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 2126RRC002-001</p> <p>Amount: \$72,335.00</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 07/01/2020 to 06/30/2021</p>				

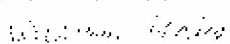
<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE		PAGE OF PAGES	
				1		2	
2. AMENDMENT/MODIFICATION NO. P000004		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO. PR-ORD-21-00255		5. PROJECT NO. (If applicable)	
6. ISSUED BY CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		CODE CAD		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)  National Academy of Sciences Attn: JAMES BURKE 500 FIFTH STREET NW WASHINGTON DC 200012736				(x)		9A. AMENDMENT OF SOLICITATION NO.	
						9B. DATED (SEE ITEM 11)	
				x		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0011 68HERC20F0315	
						10B. DATED (SEE ITEM 13) 07/01/2020	
CODE 041964057		FACILITY CODE					
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required) See Schedule							
<b>13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
<b>E. IMPORTANT:</b> Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 041964057							
TOCOR: TIA GROVES Max Expire Date: 06/30/2021							
LIST OF CHANGES:							
Reason for Modification: The purpose of this modification will be to de-obligate funding on line one in the amount of \$36,167.62 and replace this funding with "CR" funding in the amount of \$36,167.62. This modification will result in "zero" dollars added to this task order.							
CHANGES FOR LINE ITEM NUMBER: 1							
CHANGES FOR ACCOUNTING CODE:							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 12/23/2020	



<b>CONTINUATION SHEET</b>	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0011/68HERC20F0315/P00004	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR  
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>20-21-C-26RR000-000FK6XR2-2532-26A5C-2026RRC048-001</p> <p>Amount changed from \$144,643.08 to \$108,475.46</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 21-22-CR-26RRX02-000FK6XR2-2532-26A5C-2126RRC005-001</p> <p>Beginning FiscalYear 21 Ending Fiscal Year 22 Fund (Appropriation) CR Budget Organization 26RRX02 Program (PRC) 000FK6XR2 Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 2126RRC005-001 Quantity: 0 Amount: \$36,167.62 Percent: 12.50004 Subject To Funding: N</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 07/01/2020 to 06/30/2021</p>				

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE		PAGE OF PAGES	
						1      2	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00005		See Block 16C		See Schedule			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x)			
National Academy of Sciences Attn: JAMES BURKE 500 FIFTH STREET NW WASHINGTON DC 200012736							
				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				x			
				10A. MODIFICATION OF CONTRACT/ORDER NO.			
				68HERC19D0011			
				68HERC20F0315			
				10B. DATED (SEE ITEM 13)			
				07/01/2020			
CODE 041964057		FACILITY CODE					
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
See Schedule							
<b>13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
<b>E. IMPORTANT:</b> Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 041964057							
TOCOR: TIA GROVES Max Expire Date: 06/30/2021							
LIST OF CHANGES:							
Reason for Modification: The purpose of this modification will be to change out funding and replace the funding with funds received from the USDA for their contribution to the Collaborative PFAS Workshop.							
CHANGES FOR LINE ITEM NUMBER: 1							
NEW ACCOUNTING CODE ADDED:							
Account code:							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
				 (Signature of Contracting Officer)		04/30/2021 ELECTRONIC SIGNATURE	
(Signature of person authorized to sign)							

<b>CONTINUATION SHEET</b>	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0011/68HERC20F0315/P00005	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR  
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	20-21-CR-26RRX03-000FK6XR2-2532-26A5C-2126RRC012-001 Beginning FiscalYear 20 Ending Fiscal Year 21 Fund (Appropriation) CR Budget Organization 26RRX03 Program (PRC) 000FK6XR2 Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 2126RRC012-001  Amount: \$69,309.12  CHANGES FOR ACCOUNTING CODE: 20-21-C-26RR000-000FK6XR2-2532-26A5C-2026RRC048-001 Amount changed from \$108,475.46 to \$39,166.34  Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 07/01/2020 to 06/30/2021				
0002	Disregard line item 1. Deobligate \$72,336 from Line 001 Contract: 68HERC19D0011 Task Order: 68HERC20F0315 Funded PR forthcoming to replace deobligated funds with CR funds				0.00

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE		PAGE OF PAGES	
				1      2	
2. AMENDMENT/MODIFICATION NO. P00006		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
6. ISSUED BY      CODE		CAD		5. PROJECT NO. (If applicable)	
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		(x)		9A. AMENDMENT OF SOLICITATION NO.	
National Academy of Sciences Attn: JAMES BURKE 500 FIFTH STREET NW WASHINGTON DC 200012736				9B. DATED (SEE ITEM 11)	
		x		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0011 68HERC20F0315	
CODE    041964057		FACILITY CODE		10B. DATED (SEE ITEM 13) 07/01/2020	
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If required) See Schedule					
<b>13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>					
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).				
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
	D. OTHER (Specify type of modification and authority)				
<b>E. IMPORTANT:</b> Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
DUNS Number:    041964057					
TOCOR: TIA GROVES Max Expire Date: 06/30/2021					
LIST OF CHANGES:					
Reason for Modification: The purpose of this administrative modification will be to extend the ending date of the period of performance to 30 August 2021. All other conditions remain the same.					
Period Of Performance End Date changed from 30-JUN-21 to 30-AUG-21					
CHANGES FOR LINE ITEM NUMBER:    1					
End Date changed from 30-JUN-21 to 30-AUG-21					
Continued ...					
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
			William M. Yates		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA	
(Signature of person authorized to sign)				 (Electronic Signature of Contracting Officer)	
				16C. DATE SIGNED 05/27/2021	

NAME OF OFFEROR OR CONTRACTOR  
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>CHANGES FOR DELIVERY LOCATION: CAD</p> <p>Delivery Date changed from 06/30/2021 to 08/30/2021</p> <p>Payment:</p> <p> RTP Finance Center  US Environmental Protection Agency  RTP-Finance Center (AA216-01)  109 TW Alexander Drive  www2.epa.gov/financial/contracts  Durham NC 27711 </p> <p>Period of Performance: 07/01/2020 to 08/30/2021</p>				

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. P00007		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)
6. ISSUED BY CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		CODE CAD		7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)  National Academy of Sciences Attn: JAMES BURKE 500 FIFTH STREET NW WASHINGTON DC 200012736				(x)		9A. AMENDMENT OF SOLICITATION NO.
						9B. DATED (SEE ITEM 11)
				x		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0011 68HERC20F0315
						10B. DATED (SEE ITEM 13) 07/01/2020
CODE 041964057		FACILITY CODE				
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>						
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.						
12. ACCOUNTING AND APPROPRIATION DATA (If required) See Schedule						
Net Decrease: -\$64,035.54						
<b>13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>						
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).					
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
	D. OTHER (Specify type of modification and authority)					
<b>E. IMPORTANT:</b> Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.						
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)						
DUNS Number: 041964057						
TOCOR: TIA GROVES Max Expire Date: 06/30/2021						
LIST OF CHANGES:						
Reason for Modification: The purpose of this modification will be to de-obligate excess funding in the amount of \$64,035.54.						
Total Amount for this Modification: -\$64,035.54						
New Total Amount for this Version: \$225,304.54						
New Total Amount for this Award: \$225,304.54						
Obligated Amount for this Modification: -\$64,035.54						
New Total Obligated Amount for this Award: \$225,304.54						
Continued ...						
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.						
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
				William M. Yates		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
(Signature of person authorized to sign)				 (Signature of Contracting Officer)		07/07/2021

<b>CONTINUATION SHEET</b>	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0011/68HERC20F0315/P00007	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR  
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>CHANGES FOR LINE ITEM NUMBER: 1 Total Amount changed from \$289,340.08 to \$225,304.54 Obligated Amount for this Modification: -\$64,035.54</p> <p>CHANGES FOR DELIVERY LOCATION: CAD Amount changed from \$289,340.08 to \$225,304.54</p> <p>CHANGES FOR ACCOUNTING CODE: 20-21-C-26RR000-000FK6XR2-2532-26A5C-2026RRC048-001 Amount changed from \$39,166.34 to \$17,872.26</p> <p>CHANGES FOR ACCOUNTING CODE: 20-21-C-26RR000-000FK7XR3-2532-26A5C-2026RRC048-002 Amount changed from \$50,000.00 to \$44,254.94</p> <p>CHANGES FOR ACCOUNTING CODE: 20-21-CR-26RRX01-000FK8XPV-2532-26A5C-2126RRC002-001 Amount changed from \$72,335.00 to \$56,326.14 Percent changed from 24.99999 to 0</p> <p>CHANGES FOR ACCOUNTING CODE: 21-22-CR-26RRX02-000FK6XR2-2532-26A5C-2126RRC005-001 Amount changed from \$36,167.62 to \$28,163.06 Percent changed from 12.50004 to 0</p> <p>CHANGES FOR ACCOUNTING CODE: 20-21-CR-26RRX03-000FK6XR2-2532-26A5C-2126RRC012-001 Amount changed from \$69,309.12 to \$56,326.14</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 07/01/2020 to 08/30/2021</p>				